

In re Application of: Oren GLOBERMAN
Serial No.: 10/517,938
Filed: August 9, 2005
Office Action Mailing Date: August 18, 2009

Examiner: Kevin Thao TRUONG
Group Art Unit: 3734
Attorney Docket: 38309
Confirmation No.: 3765

In the Claims:

1. (Currently Amended) A tool-carrying catheter, comprising:
an elongate body adapted for insertion into a blood vessel;
a tool section attached to a distal ~~side~~end of said body; and
a guide-channel adapted to carry at least a guide-wire,
wherein said catheter includes an entry port into said guide-channel for
said guide wire and wherein said tool includes a distal exit for said guide wire from
said guide-channel, defined in ~~a side~~an end of said tool.
2. (Withdrawn) A catheter according to claim 1, wherein said entry port
is proximal to said tool.
3. (Withdrawn) A catheter according to claim 1, wherein said entry port
is distal to said tool.
4. (Withdrawn) A catheter according to claim 1, wherein said guide-
channel is adapted to carry a second catheter.
5. (Withdrawn) A catheter according to claim 4, wherein said second
catheter is a balloon catheter.
6. (Withdrawn) A catheter according to claim 1, wherein said guide-
channel is limited to a distal section of said elongate body.
7. (Withdrawn) A catheter according to claim 1, comprising a second
guide-channel adapted to carry a second guide wire.
8. (Withdrawn) A catheter according to claim 7, wherein said two guide-
channels share a common lumen section.

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9. (Withdrawn) A catheter according to claim 8, wherein said second guide-channel defines an aperture in its side for said distal exit.

10. (Original) A catheter according to claim 1, wherein said tool comprises a balloon.

11. (Original) A catheter according to claim 10, wherein said guide-channel is defined through said balloon.

12. (Original) A catheter according to claim 10, wherein said guide-channel is defined between folds of said balloon.

13. (Currently Amended) A catheter according to claim 12, wherein said balloon includes a ~~stiffing~~ stiffening which defines said guide-channel.

14. (Withdrawn) A catheter according to claim 12, wherein said balloon includes adhesive which adheres two parts of said balloon to define said guide-channel.

15. (Withdrawn) A catheter according to claim 10, wherein said balloon is split to define said channel between two sections of said balloon.

16. (Withdrawn) A catheter according to claim 15, wherein said balloon is axially split.

17. (Withdrawn) A catheter according to claim 15, wherein said balloon is trans-axially split.

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18. (Original) A catheter according to claim 1, wherein said tool comprises a stent.

19. (Original) A catheter according to claim 18, wherein said stent is mounted on a balloon.

20. (Withdrawn) A catheter according to claim 19, wherein said guide-channel is defined between said stent and said balloon.

21. (Original) A catheter according to claim 19, wherein said guide-channel is defined between folds of said balloon.

22. (Original) A catheter according to claim 21, wherein said guide-channel is wide enough to accommodate a second balloon catheter.

23. (Withdrawn) A catheter according to claim 18, wherein said guide-channel is defined by a crimping of said stent.

24. (Withdrawn) A catheter according to claim 18, wherein said stent includes a dedicated aperture along its length for said exit port.

25. (Withdrawn) A catheter according to claim 18, wherein said stent defines two guide-channels.

26. (Withdrawn) A guiding stent comprising a stent body crimped in a radially non-uniform manner to define at least one guide-channel adapted to carry at least a guide-wire.

27. (Withdrawn) A stent according to claim 26, wherein said channel is designed to accommodate only a single guide-wire.

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28. (Withdrawn) A stent according to claim 26, wherein said channel is designed to accommodate a plurality of guide-wires.

29. (Withdrawn-Currently Amended) A stent according to claim 26, wherein said channel does not ~~extent~~ extend along an entire length of said stent.

30. (Withdrawn) A stent according to claim 26, wherein said channel is adapted to carry a balloon catheter.

31. (Withdrawn) A stent comprising:
an elongate cylindrical body; and
an aperture defined in a middle section of said body, said aperture including two abutting sections, one of said sections being narrower than the second section at least at said junction.

32. (Withdrawn) A stent according to claim 31, wherein said stent is defined by a plurality of circumferential expandable bands inter-linked by a plurality of axial links.

33. (Withdrawn) A stent according to claim 32, wherein said stent has a regular pattern and wherein said aperture is defined by the lack, in said pattern, of one axial link and by the lack of a section of an expandable band between two axial links.

34. (Withdrawn) A stent according to claim 32, wherein said axial links include at least one protrusion and wherein axial links abutting said aperture are configured to have their protrusion point away from said aperture.

35. (Withdrawn) A stent according to claim 31, wherein said stent is adapted to be placed in a target vessel having a varying diameter along the length of

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the stent and wherein the aperture is narrower towards an end of the stent adapted to be in a narrow wider section of the target vessel.

36. (Withdrawn) A stent according to claim 31, wherein said junction is adapted to be obliterated by expansion.

37. (Withdrawn) A stent according to claim 31, wherein said aperture is configured to allow passage of an unsheathed balloon catheter passing through it, without snagging of the balloon.

38. (Withdrawn) A stent according to claim 31, wherein said stent is adapted to radially expand more in a portion of the stent to one side of the aperture than in a portion of the stent to the other side of said aperture.

39-73. (Cancelled)

74. (New) A catheter according to claim 10, wherein said guide-channel is defined by folds of said balloon.

75. (New) A catheter according to claim 1, wherein said guide-channel is defined by the tool with no separate passage.

76. (New) A catheter according to claim 1, wherein said guide channel is defined by a passage within the confines of said tool.